ABSTRACT

Previously-unused slots in a Huffman code table associated with a Joint

Photographic Experts Group (JPEG) image file are associated with various

quantization matrices (Q matrices) that are used to quantize data blocks of the

5   JPEG image file. Huffman codes associated with the various Q matrices permit

the particular Q matrix used to quantize a given data block to be signaled by a

decoder as an end-of-block (EOB) code. The EOB codes and the Huffman code

table are sent with the JPEG image file. Upon decoding of the image file, a

standard JPEG decoder reads each of the EOB codes as a standard JPEG EOB

10   code and does not vary the Q matrix. A modified decoder reads from each of the

EOB codes which Q matrix was used to encode each particular data block of the

image and uses that Q matrix to dequantize the data block.